SAT Report for Case # P-18-0147

General

[redacted]

Report Status: Complete **Status Date:** 04/16/2018

CRSS Date: 04/12/2018 **SAT Date:** 04/13/2018 **SAT Chair:** William Irwin

Consolidated PMN? N

Consolidated Set:

Submitter: JSR Micro, Inc.

CAS Number: None

Ecotox Same As: [redacted]

Related Cases: [redacted]

Health Related Cases: [redacted]

Chemical Name: [redacted]

Use: [redacted] for [redacted] photolithography for [redacted] Analogs [redacted]

Trade name: [redacted]

PV Max (kg/yr): [redacted]

Ecotox Assessor: Gallagher, Jeffrey **Fate Assessor:** Card, Marcella **Health Assessor:** Falke, Ernest

Physical Chemical Information

Molecular Weight:	5000.0	**Physical State - Neat:**	Solid (est.)		
Percent 500:	1.0	**Percent 1000:**	5.0		
Melting Point (Measured):		**Melting Point (est):**		**MPD (EPI):**	
Vapor Pressure:		**Vapor Pressure (est):**	<0.000001	**VP (EPI):**	
Water Solubility:		**Water Solubility (EST):**	<0.000001	**Water Solubility (EPI):**	
Log Kow:				**Log Kow (EPI):**	
Log P:		**Log P Comment:**			

SAT Concern

Ecotox Rating (1):	1	**Ecotox Rating Comment (1):**	
Ecotox Rating (2):		**Ecotox Rating Comment (2):**	
Health Rating (1):	1-2	**Health Rating Comment (1):**	There is uncertain concern for irritation from the phenol component which is supported by the SDS
Health Rating (2):		**Health Rating Comment (2):**	

PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
3	1	1	

Exposure Based Review (Health)?	N
Exposure Based Review (Ecotox)?	N
SAT Keywords:	Irr- E S L

Fate Assessment Summary:	P-18-0147 FATE: MW = 5000 with 1% < 500 and 5% < 1000 Solid S = Negl. VP < 1.0E-6 torr at 25 °C (E) BP > 400 °C (E) H < 1.00E-8 (E) POTW removal (%) = 90 via sorption Time for complete ultimate aerobic biodeg > mo Sorption to soils/sediments = v.strong PBT Potential: P3B1 *CEB FATE: Migration to ground water = negl
Removal in WWT/POTW (Overall):	90

Condition	Rating Values w/ Rating Description	Comment
WWT/POTW Sorption:	3	
WWT/POTW Stripping:	4	
Biodegradation Removal:	4	
Biodegradation Destruction:		
Aerobic Biodeg Ult:	4	

Condition	Rating Values w/ Rating Description	Comment
Aerobic Biodeg Prim:		
Anaerobic Biodeg Ult:	4	
Anaerobic Biodeg Prim:		
Hydrolysis (t1/2 at pH 7,25C) A:		
Hydrolysis (t1/2 at pH 7,25C) B:		
Sorption to Soils/Sediments:	1	
Migration to Ground Water:	1	
Photolysis A, Direct:		
Photolysis B, Indirect:		
Atmospheric Ox A, OH:		
Atmospheric Ox B, O3:		

Health Assessment

Health Summary:	Absorption of neat solid is nil all routes, but when in solution, for the low MW fractions absorption is expected to be poor aII routes, based on physical/chemical properties. There is uncertain concern for irritation from the phenol repeat unit which is supported by the SDS form the same as case.
Routes of Exposure:	Dermal , Oral, Inhalation

Test Data Submitted

Test Data Submitted:	

Ecotox Assessment

Test organism	Test Type	Test Endpoint	Predicted	Measured	Comments
Fish	96-h	LC50	*		
Daphnid	48-h	LC50	*		
Green Algae	96-h	EC50	*		
Fish	-	Chronic Value	*		
Daphnid	-	Chronic Value	*		
Green Algae	-	Chronic Value	*		

Factors	Most Sensitive Endpoint	Assessment Factor	CoC	Comment
Acute Acquatic:	*	5	*	NES
Chronic Acquatic:	*	10	*	NES

Ecotox Route of Exposure?	No releases to water

Factors	Values	Comments
SARs:	Nonionic polymers	
SAR Class:	Nonionic polymers-insoluble	
TSCA NCC Category?	None	

Recommended Testing

Ecotox Value Comments

Predictions are based on SARs for nonionic polymers; MW 5000 with 1% <500 and 5% <1000; Solid (est.) with an unknown MP (P); S = Negligible (P); effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150 mg/L as CaCO3; and TOC <2.0 mg/L.

Ecotox Factors Comments

Focus
Report/Decision Document:
Environmental Hazard and Risk
(P-18-0147)

Environmental Hazard Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risks because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance.
EPA estimated environmental hazard of this new chemical substance using hazard data on analogous chemicals. Based on these estimated hazard values, EPA concludes that this chemical substance has a low environmental hazard.

· Substance does not fall within a TSCA New Chemicals Category
· ECOSAR chemical class of Nonionic polymers- insoluble
· Low hazard based on no effects at saturation.

Environmental Risk:
-Risks were not identified for ecotoxicity.